

DMS 2150 Type 2



Mailing Address:
P.O. BOX 25964
LOS ANGELES, CALIF. 90025
Tel: Area Code 213 - 478-0095
Cable Address: CAVALAB
TWX: 910 342 7557

LPS RESEARCH LABORATORIES, Inc.

2050 COTNER AVENUE · LOS ANGELES, CALIFORNIA · 90025

February 4, 1980.

Mr. W. T. Jordan, Packaging Engineer,
Materials Handling & Packaging Engineering,
Dept. #1-725 (52-11),
Douglas Aircraft Company,
3855 Lakewood Boulevard,
LONG BEACH, California, 90846.

Dear Mr. Jordan:

Thank you for your letter of January 28 regarding our LPS #3 aerosol.
Our answers follow in the same sequence as your questions:

1. Compound Boiler Preserving Liquid
2. ORM-D-AIR Consumer Commodity
Non Flammable Gas
3. 98 PSI @70°F
121 PAS @130°F
4. Propellant is CO₂
5. Container capacity is 32.1 cubic inches
6. IATA #2166

We hope this information answers all your questions.

Sincerely,

LPS RESEARCH LABORATORIES, INC.,

Bernard Einson,
Division Manager.

BE/bh



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QPL 2150

Shipping Instructions for LPS Products--Hazardous Materials Transportation Act

Domestic Surface Aerosols

LPS Products Effected: LPS 1, LPS 2, LPS 3, Instant Contact Cleaner, Instant Super Cleaner and Instant Cold Galvanize.

LPS Products Not Effected: ESA-100 and Ultrasonic Cleaner.

LPS Products effected fall under the description to appear on LPS Bills of Lading:

"Compound Boiler Preserving Liquid NMFC 500 93, Sub 2, barrel/boxes
C-155-Consumer Commodity ORM-D."

There is no limit in quantity or weight. All effected items are packed 12 items per case except 2 oz. containers of LPS 1, LPS 3 and Instant Contact Cleaner that are packed 24 cans per box.

Each carton must have Consumer Commodity ORM-D-Air, Containers Comply with Prescribed Regulations, stamped on either end or side of the container. The words Consumer Commodity must be above or below the words ORM-D-Air. The letters ORM-D-Air must be outlined by a border 1/4 of an inch from the letters. It must be in a different color than other printing.

In accordance with the above classification, there are no special notations needed on the shipping papers to indicate either hazardous material or compressed gasses. Therefore, no certifications are needed on the shipping containers.

Domestic Bulk Shipments

LPS Products Effected: LPS 1, LPS 2, LPS 3, Instant Super Cleaner, Instant Contact Cleaner, Instant Cold Galvanize and ESA-100.

LPS Products Not Effected: Ultrasonic Cleaner.

LPS Products in bulk (all containers except aerosols) are not subject to hazardous materials regulations because there are less than 110 gallons in each container.

All domestic surface rules apply to overland shipments in the United States and Canada.

Shipping Instructions for LPS Products

International Ocean Freight

Rules governing Domestic Surface Aerosols also apply to International Ocean Freight shipments. The only weight restriction per carton, however, is that cardboard cartons shall not hold more weight than the carton is designed to hold. (i.e., a carton designed and tested to hold 50 lbs. cannot hold more than 50 lbs.)

Air Freight, Bulk & Aerosol shipments both Foreign & Domestic

Products Effected: LPS 1, LPS 2, LPS 3, Instant Contact Cleaner, Instant Cold Galvanize and Instant Super Cleaner.

Products Not Effected: ESA-100 and Ultrasonic Cleaner.

In order to insure prompt delivery of air freight shipments, a declaration should accompany all air shipments even though not required. For domestic shipments, complete a "restricted" form. For export shipments, also use the "restricted" form. Each airline or freight forwarder can supply the necessary declarations.

Maximum net quantity in one outside container (including master pack) for aerosols is 65 lbs. For bulk shipments (all containers other than aerosol) there are no weight regulations for containers holding less than 110 gallons.

Each carton must have Consumer Commodity ORM-D-Air, Containers Comply with Prescribed Regulations stamped on either end or side of the container. The words Consumer Commodity must be above or below the words ORM-D-Air. The letters ORM-D-Air must be outlined by a border 1/4 of an inch from the letters. It must be in a different color than other printing.

For air freight shipments, descriptions and marks should be as follows for both foreign and domestic shipments:

1. Aerosols--should be marked "Consumer Commodity ORM-D Compressed Gasses NOS-Non Flammable, Passenger Aircraft."
2. Bulk--non-regulated.

Note: If a shipment includes both aerosol and bulk in the same air shipment, always list aerosol first on bills of lading and shipping papers.

All air shipments of LPS will bear the following certification that will be given to the carrier: "I hereby certify that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled in a proper condition for carriage by air according to applicable national governmental regulations."

RED BORDER

(Provide at least two copies to the airline)

MANDATORY 1975

IATA

SHIPPER'S CERTIFICATION FOR RESTRICTED ARTICLES
(excluding radioactive materials)
Use Block Letters

IATA

WARNING: Failure to comply in all respects with the IATA Restricted Articles Regulations may be a breach of the applicable law, subject to legal penalties. This certification shall in no circumstance be signed by an IATA Cargo Agent, consolidator, or a forwarder.

This consignment is within the limitations prescribed for: (mark one)

☒ both passenger and cargo aircraft ☐ only cargo aircraft

Number of Packages	Article Number (See Section IV RAR)	Proper Shipping Name of Article as shown in Section IV of IATA Restricted Articles Regulations (RAR). Specify each article separately.	Class	IATA Packaging Note no. applied	Net Quantity Per Package	Flashpoint (Closed-cup) for Flammable Liquids	
→	510	All LPS products in aerosols except IG. Compressed gasses NOS non flammable gas	NON FLAM GAS	200		°C.	°F. 155 180
	509	IG Aerosols Compressed gasses NOS flammable	FLAM GAS	200			120
	1939	Bulk Combustible liquids, in packagings having capacities of 420 ltrs. or less	NOT RESTRICTED				
These are the IATA numbers as applied to LPS manufactured by us and shipped from our plants to various destinations.							

Special Handling Information:

I hereby certify that the contents of this consignment are fully and accurately described above by Proper Shipping Name and are classified, packed, marked, labelled and in proper condition for carriage by air according to the current Edition of the IATA Restricted Articles Regulations and all carrier and governmental regulations. I acknowledge that I may be liable for damages resulting from any mistatement or omission and I further agree that any air carrier involved in the shipment of this consignment may rely upon this Certification.

Name and full address of shipper

LPS RESEARCH LABORATORIES, INC.

Name and title of person signing Certification

2050 Cotner Avenue

Los Angeles, Calif. 90025

Date

June 14, 1977

Signature of Shipper (See Warning Above)

Air Waybill No. *

Airport of Destination *

Airport of Departure *



Lufthansa Cargo

Shipper's Certification for Restricted Articles

(to be completed in duplicate)

for radioactive materials use form on reverse hereof

This is to certify that the contents of this consignment are properly described by name and are packed, marked and labelled and are in proper condition for carriage by air according to the IATA Restricted Articles Regulations and to all applicable carrier and governmental regulations. This consignment is within the limitations prescribed for passenger/cargo aircraft only (cross out non-applicable).

The following minimum information shall be provided:

Number of Package(s)	Specify each article separately (Proper Shipping Name)*	Net quantity per package
	Compound, Boiler Preserving Liquid NMFC-50143, Barrel/Boxes C155-- Commodity No. NMFC-50143 Flash Point 155° F. T.O.C. Green Label as flash point exceeds 80°F. Properly packaged for Passenger/cargo aircraft. Compressed Gasses (Dichlorodifluoromethane) Non-flammable used as the propellant Class--Non-Flammable gasses--Green label	

Name and address of shipper

LPS Research Laboratories, Inc.

2050 Cotner Ave., Los Angeles, Calif. 90025

Signature

Peter Farchild

Date

* Combustible liquids require indication of flashpoint

U.S. Department of Labor

Derived from form no. OSHA-20

Occupational Safety & Health Administration (OSHA)

MATERIAL SAFETY DATA SHEET

Section I Mfg. Name: LPS RESEARCH LABORATORIES

Address: 2050 Cotner Avenue, Los Angeles, California 90025

Emergency Telephone No. (213) 478-0095

Trade Name and Synonyms:	LPS #1 & #25 Aerosols & Bulk	LPS #2 Aerosols & Bulk	LPS #3 Aerosols & Bulk	LPS Instant Cold Galvanize Aerosols & Bulk
Formula:	Proprietary	Proprietary	Proprietary	Proprietary
Section II HAZARDOUS INGREDIENTS				
Solvents	(80%) TWA 300 PPM	(70%) TWA 300 PPM	(60%) TWA 300 PPM	Toluol { Aerosols 45% Bulk 10%
Metallic Coatings				Zinc { Aerosols 50% Bulk 85% Higher after drying
Section III PHYSICAL DATA				
Boiling Point (°F.)	300° F.	325° F.	300° F.	230° F.
Water Soluble	No	No	No	No
Specific Gravity (H ₂ O=1)	.800 Approx.	.820 Approx.	.830 Approx.	
Percent Volatile	80%	70%	60%	Aerosols 45% Bulk 10%
Appearance	Clear, thin greaseless with a sweet odor	Brown, thin greaseless with a sweet odor	Brown, thin waxy liquid with a sweet odor	Battleship gray liquid
Section IV FIRE AND EXPLOSION HAZARD DATA				
Flash Point	180° F. (T.O.C.)	145° F. (T.O.C.)	155° F. (T.O.C.)	110° F. (T.O.C.)
Extinguishing Media	Usual extinguishing media for hydrocarbons	Usual extinguishing media for hydrocarbons	Usual extinguishing media for hydrocarbons	Foam, Carbon Dioxide, Dry Chemicals
Unusual Fire & Explosive Hazards	Usual hazards with hydrocarbons	Usual hazards with hydrocarbons	Usual hazards with hydrocarbons	Vapor forms low flash point — usual hazards with toluene
Section V HEALTH HAZARD DATA				
TWA	300 PPM	300 PPM	300 PPM	200 PPM
Time Weighted Average	Nausea, watering of eyes	Nausea, watering of eyes	Nausea, watering of eyes	Nausea, watering of eyes
Effects of Over Exposure	Wash out eyes, do not induce vomiting if swallowed, call physician	Wash out eyes, do not induce vomiting if swallowed, call physician	Wash out eyes, do not induce vomiting if swallowed, call physician	Wash out eyes, do not induce vomiting if swallowed, call physician
First Aid Procedures				
Section VI REACTIVITY DATA				
Incompatibility	Fire and intense heat	Fire and intense heat	Fire and intense heat	Fire and intense heat
Hazardous Decomposition Products	Products that result from decomposing of hydrocarbons	Products that result from decomposing of hydrocarbons	Products that result from decomposing of hydrocarbons	Products that result from decomposing of hydrocarbons and zinc
Section VII SPILL OR LEAK PROCEDURES				
Steps to be taken	Keep away from fire and children, clean up with solvent	Keep away from fire and children, clean up with solvent	Keep away from fire and children, clean up with solvent	Keep away from fire and children, clean up with solvent
Waste Disposal Method	Normal methods for disposing of hydrocarbons	Normal methods for disposing of hydrocarbons	Normal methods for disposing of hydrocarbons	Zinc method
Section VIII SPECIAL PROTECTION INFORMATION				
Respiratory Protection	Use with plenty of ventilation	Use with plenty of ventilation	Use with plenty of ventilation	Use with plenty of ventilation
Section IX SPECIAL PRECAUTION Handling and Storing				
	Store aerosols below 120°F.	Store aerosols below 120°F.	Store aerosols below 120°F.	Store aerosols and bulk

U.S. Department of Labor
Occupational Safety & Health Administration (OSHA)
MATERIAL SAFETY DATA SHEET

Derived from form no. OSHA-20

Section I Mfg. Name: **LPS RESEARCH LABORATORIES**

Address: **2050 Cotner Avenue, Los Angeles, California 90025**

Emergency Telephone No. **(213) 478-0095**

Trade Name and Synonyms:	LPS Instant Contact Cleaner Aerosol & Bulk	LPS Instant Super Cleaner Aerosol & Bulk	LPS ESA-100 Bulk
Formula:	Proprietary	Proprietary	Proprietary
Section II HAZARDOUS INGREDIENTS			
Solvents	(100%) Toxicity – 1000 PPM	(100%) TWA 300 PPM	Solid
Hazardous Mixtures other Liquids	Non-Toxic	Toxicity Rating MAC-500 PPM	Not Applicable
Section III PHYSICAL DATA			
Boiling Point (°F.)	118° F.	172° F.	Not Applicable
Water Soluble	No	No	No
Specific Gravity (H ₂ O=1)	1.565	1.386	.880 Approx.
Percent Volatile	100%	100%	None
Appearance	Clear, pleasant odor	Clear, pleasant odor	Brown, paste-type with pleasant waxy odor
Section IV FIRE AND EXPLOSION HAZARD DATA			
Flash Point	Non-Flammable	Non-Flammable	Solid (no flash point)
Extinguishing Media			Fire point=525° F.
Unusual Fire & Explosive Hazards	Non-Explosive	Non-Explosive	None
Section V HEALTH HAZARD DATA			
Time Weighted Average (TWA)	500 PPM	300 PPM	
Effects of Over Exposure	Not Applicable	Nausea, watering of eyes	Nausea
First Aid Procedures		Wash out eyes. If swallowed, do not induce vomiting, call a physician	If swallowed, do not induce vomiting, call a physician
Section VI REACTIVITY DATA			
Incompatibility			
Hazardous Decomposition	Not Applicable	Usual hazards with chlorinated hydrocarbons	Fire and intense heat Products that result from decomposition of waxes
Section VII SPILL OR LEAK PROCEDURES			
Steps to be taken	Keep away from children Evaporates completely in seconds	Keep away from children Evaporates completely in minutes	Keep away from children Clean up with detergent or solvent
Waste Disposal Method	Evaporates completely	Evaporates completely	Normal methods for disposing of hydrocarbons
Section VIII SPECIAL PROTECTION INFORMATION			
Respiratory Protection	Use with plenty of ventilation	Use with plenty of ventilation	None required
Section IX SPECIAL PRECAUTION			
Handling and Storing	Store aerosols below 120° F.	Store aerosols below 120° F.	Store away from fire or intense heat
Other Precautions	Do not incinerate aerosol cans. Keep away from children	Do not incinerate aerosol cans. Keep away from children	Keep away from children